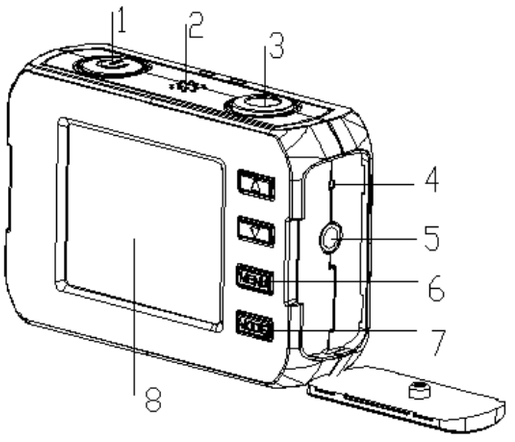
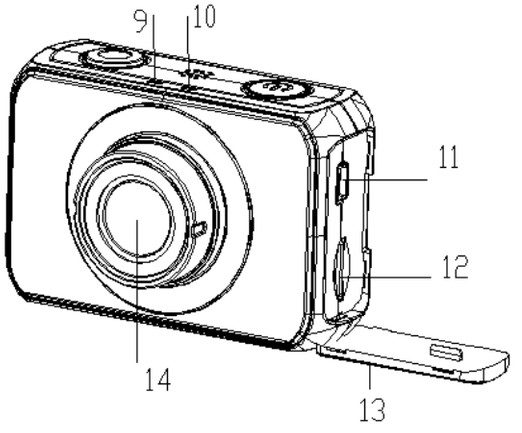
USER MANUAL

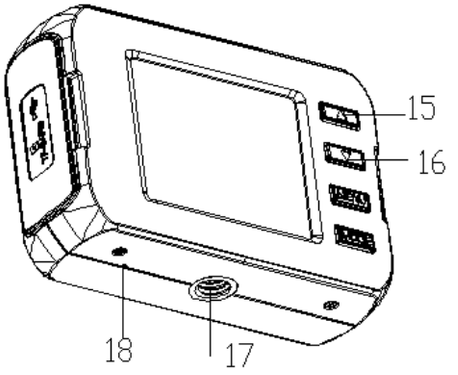
DIGITAL VIDEO CAMERA

Preparing For Using

➢ Part of the camcorder







1.Power button

2.Speaker

3.Shutter button

4.Reset

5.AV out jack

6.Menu button

7.Mode button

8.LCD screen

9.Charging indicator light

10.Busy indicator light

11.USB jack

12.Micro SD card slot

13.Cover

14.Lens

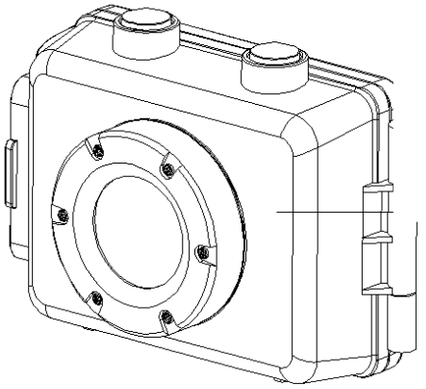
15.Up button

16.Down button

17.Tripod slot

18.Microphone

19. Water resistant case



➢ Water resistant case

The part 19 is a water resistant TPU case, You can wear on it during using. The case can keep your camcorder clean, and the most important function is water resistant up to 15+ m (please maintain the gasket always clean to prevent leakage)

➢ Charging the battery

The camcorder has an internal lithium battery, Please charge fully the battery prior to the first time use.

1.Turn off the camcorder.

2.Connect the camcorder to the computer through the USB cable to for battery charging.

3.when charging ,the power indicator light will turn red, and when the power indicator light turns off , it indicate charging full.

4.Unplug the USB cable.

The camcorder body may be warm after charging or extended use. This is normal.

➢ Inserting the Memory Card

This camcorder does not equipped with internal memory. A micro SD card must be inserted for this sport camcorder to operate. If a card has not been inserted, this sportive camcorder can not record.

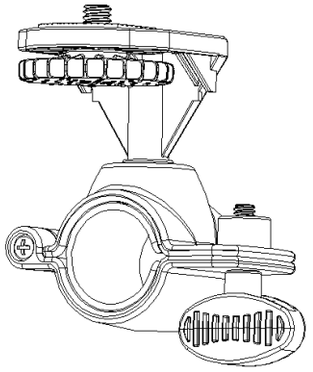
1.Turn off the camcorder.

2. Open the rubber cover at the side of the camcorder . Find the micro SD card slot, and then insert the card.

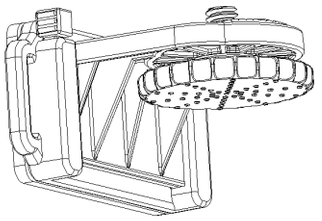
If the memory card has successfully be inserted, you can hear a sound buzzer.

➢ Mounts (optional)

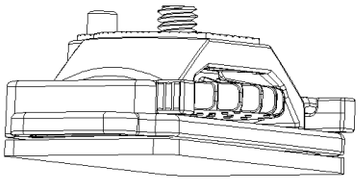
In order to use the camcorder more convenient in outdoor sports or in under water situations, using some mounts fixed the camcorder to make it. There are three kinds of mounts packaged in this the camcorder.



a



b



c

By installing these mounts, the camcorder can fix to bikes or helmets. The operating steps as follow:

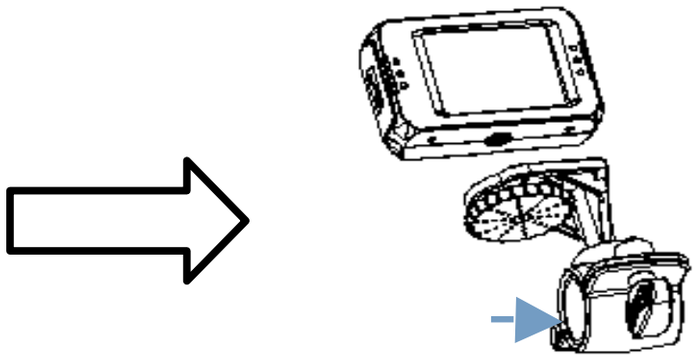
How to fix the sportive camcorder to the bike?

1: Open the round (1) of the mount(a) , insert the rubber pad into it and fix them to handlebars of bike, then wring the arew to fix it.

2: Fix the metal screw of the mount to the tripod slot of the

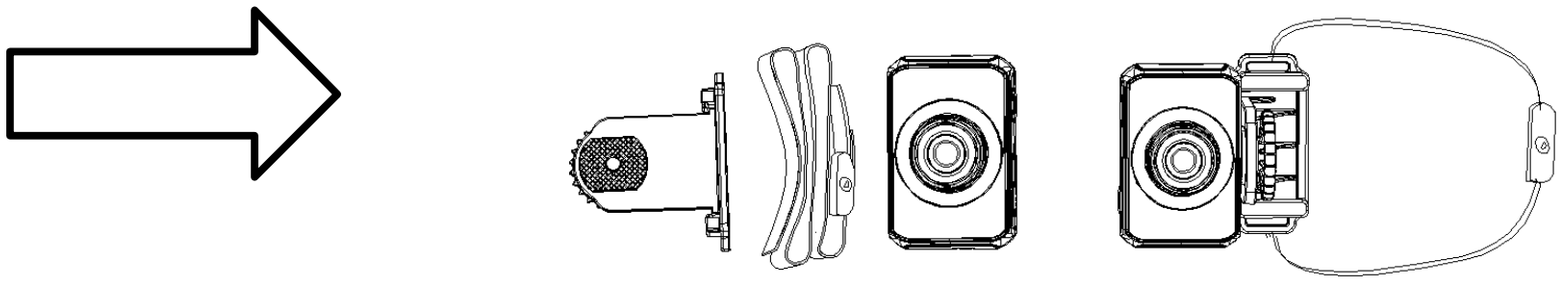
camcorder respectively, and then wring the thread to fix the mount

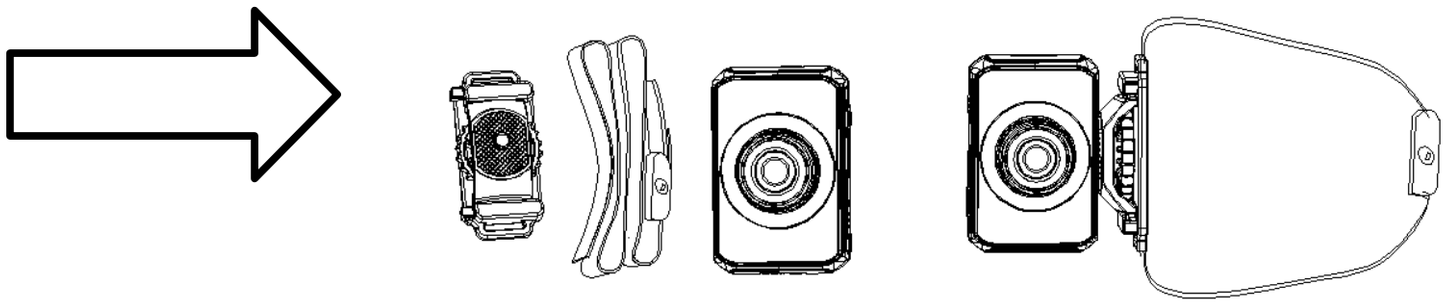
3: After fixing it to the bike, you can start to take pictures.



How to use a strap fix to your helmet?

1: Insert a strap into the two ends of the mount (b or c), adjust the length according to helmet's size, and then you can use strap fix to your helmet and start to take pictures.





➢ How to use a sticker fix to your helmet?

1: Use the side of a sticker paste to the mount(b or c), and the other side paste to your helmet , then start to take pictures.

TIPS: Do you remember the water resistant case? If necessary, you can lock it with the sport camcorder, then fix them to a bike or a he

	Capture mode	For taking still photos.
	Video mode	For recording movie clips.

	Audio mode	For recording audio files
	Playback mode	For playing recorded files.

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Basic Operation

➢ Turn Power On and Off

1.Press the POWER button to turn on the camcorder.

2.Press the POWER button again to turn the power off.

➢ Change the mode of the camcorder

Current camcorder settings will be displayed on the LCD screen. The camcorder has 4 different modes : capture mode, video mode, audio mode and playback mode. Press the MODE button repeatedly to select between those modes.

MENU	FUNCTION
Power save	To save power ,the video camera is turned off automatically after a period of time . After you select the "off " that means the power save function is switched off □1min□/□ 3min □/□5min□/□off □
Timer&Date	set the date and time for the camcorder.
Language	Set the on-screen language: □English□/□French□/□Nederlands□/□espanol□/□Italian□/□Portuguese□/□Deutsch□
TV Out	You can review images on TV with the supplied AV cable. TV Out should be set to either NTSC or PAL depending on your region. □NTSC□ □PAL□

USB	There are three functions when using USB □MSDC□/□PCCAM□/□Pictbridge□
Start-up Image	Set on-screen image when turning on the camcorder □off□/□system□/ □My image□
Format	Format your micro SD card including protected files , removing the SD card during formatting may damage the card. □YES □/□NO□
Reset All	Restores the camcorder to default settings: □YES □/□NO□

➢ Setting the camcorder

Before taking photographs or recoding videos and audios, press the POWER button to switch on the camcorder first, Pressing the MODE button after pressing the OK/MENU button to bring up the setup menu as below, and press the SHUTTER button to ensure the settings. At last, you can press the OK/MENU button again to exit and return to the last menu .

➢ Take a still image.

1.Turn on the camcorder and press the MODE button to set the camera to capture mode .

2. Use the LCD screen to view your subject, press and hold the UP/DOWN button to zoom in/zoom out on your subject . And then press the SHUTTER button to take a still image.

3.After the image has been taken, the LCD will display the image for a brief second.

4.The memory capacity in the top right of screen will decrease as each image is taken.

➢ Capture mode menu

MENU	FUNCTION
Resolution	Allow to change the image resolution for taking still photos: 【5M】/【3M】/【1M】/【VGA】
Quality	Select a lower image quality to decrease the image size in order to take more images. There are three options for choice: □Super Fine□/□Fine□/□Normal□

Metering	Change the metering method to change the brightness of the picture: □Center□/□Multi□/□Spot□
White balance	Adjust the white balance to suit different light sources. There five items for option: □Auto□/□Daylight□/□Cloudy□/□Fluorescent□/□Tungsten□
Exposure	Set the exposure value manually to compensate for unusual lighting conditions ： □-2□/□-1.7□/□-1.3□/□-1□/□-0.7□/□-0.3□/□0□/□+0.3□/□+0.7□/□+1□/□+1.3□/□+1.7□□+2□

Driver Mode	Set the camera have a delay after pressing the shutter button : 【Off】/【Self-timer 2S】/【Self-timer 10S】/【Burst】
Effect	Set the color effect to add a color tone to the video: □Normal□/□B&W□/□Sepia□/□Negative□/□Red□/□Green□/□Blue□
Date Stamp	This function can be used to add a date to your files as you take them □Date□/□off□/□Date&Time□

➢

➢ Recording Movie Clips

1.Turn on the camcorder and press the MODE button to set the camera to video mode .

2. Use the LCD screen to view your subject, press and hold the UP/DOWN button to zoom in/zoom out on your subject , Then press the SHUTTER button to start recording.

3.The LCD monitor will displays how long it has been recording for .

4.Press the SHUTTER button again to stop recording.

5.The camcorder will stop recording automatically when the memory capacity is full.

➢ Video mode menu

MENU	FUNCTION
Movie Size	Changing the video resolution for the recording. Select small movie size to record longer time. 【HD】/【640】/【320】
Frame Rate	Select low frame rate to record longer time. There are two items for option: 【High】/ 【Low】
Metering	Refer to capture mode menu
White balance	Refer to capture mode menu
Effect	Refer to capture mode menu

Date Stamp	Refer to capture mode menu

➢ Recording audio files

1.Turn on the camcorder and press the MODE button to set the camera to audio mode .

2.Press the SHUTTER button to start to record audio files .

3.Don’t cover the microphone hole when recording audio files, or else you won’t get the audio files you want to record for .

➢ Playback mode

➢ Playback recorded files

1.Turn on the camcorder and press the MODE button to set the camera to playback mode .

2.Press the UP/DOWN button to view all the photos and video files one by one .

3.When playing video files, you can press the SHUTTER button to play the video file, then press the UP button to have a pause. Press it again to replay again . and you can press the MENU button to stop playing the video file.

4.When viewing the images, you will see a icon

on the bottom left of the screen .

5.When hearing the audio file , the icon

will appear on the screen. By pressing the UP button to have a pause , pressing it for the second time it will play again , also you can press the MENU button to stop hearing the audio file.

➢ Playback mode menu

MENU	FUNCTION
Lock	【Lock/Unlock one】/【Lock All】/【Unlock All】

Delete	Use this function to delete a single file or all files. 【One】/【All】
Slide Show	Use the function to set the option in the slide show. 【Start】:start play 【Interval】:press MODE button to set the intervals between two images (up to 10 seconds). 【Repeat】:【YES】/【NO】
Effect	Set the color effect to add a color tone to the file: 【B&W】/【Sepia】/【Negative】/【Red】/【Green】/【Blue】/【Binarize】/【Sunset】/【Warm】/【Cold】/【Contrast】
Rotate	【Rotate】:Press the SHUTTER button to rotate the image, one time for 90° 【Save】: save this image . 【Back】: get back to the playback page.

Resize	Resize the current image to a litter size one . 【5M】/【3M】/【1M】/【VGA】
Voice Memo	Add a background music for the current file: 【Add】/【Delete】
Start-up Image...	Set the current image to the on-screen image when turning on the camcorder 【Set】/【Cancel】

Making Connections

➢ Connecting the Camcorder to a TV

When plug in the TV-out cable to the camcorder AV out jack , the LCD screen turns black, Connect the camcorder to a TV and the TV screen now performs as the camcorder LCD screen.

1.Connect the camcorder to a TV via the AV cable .

2.Turn on the TV and the camcorder, and then set the TV to “AV” mode.

3.When the camcorder is set to record mode, you can preview the subjects you want to record on the TV screen.

4.When the camcorder is set to Playback mode, you can review all the files stored in the camera on the TV.

➢ Connecting the Camcorder to a PC

There are two ways to download files from the camcorder's internal memory or memory card to a computer:

- ❖ By inserting the memory card into a card reader
- ❖ By connecting the camera to a computer using the supplied USB cable.

Using a Card Reader

1. Eject the memory card from the camcorder and insert it into a card reader that is connected to a computer.

2. Open [My Computer] or [Windows Explorer] and double-click the removable disk icon that represents the memory card.
3. Copy images from the card into a directory of your choice on the computer’s hard disk.

Connecting the Camcorder to a PC with the USB Cable

1. Connect the supplied USB cable to the computer's USB port and turn the camcorder on.
2. After the camcorder turning on, it will appears “MSDC” on the screen, if not ,please press the MODE button to choose this .
3. Open [My Computer] or [Windows Explorer]. A"Removable Disk" appears in the drive list. Double-click the "Removable Disk" icon to view its contents. Files stored on the camera are located in the folder named "DCIM".
4. Copy the files that you want to your computer.

➢ How to use the PC Camera function

1: Connect the camcorder to a computer with the supplied USB cable.

2: Turn on the camcorder. then press the MODE button to switch between “MSDC”and “PC CAM”.

3: Choose the “PC CAM” option, the screen will turn black totally . At this time, Open [My Computer], there will be a file named " USB video tool".

4: Double click it. The camcorder will work as a webcam.

NOTE: The Cam function can supported in Windows XP, Windows 7, Windows Vista, Window 8, the icon only appeared in Windows XP, in other platforms please use the third software(MSN etc)to make it.

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Specification

Sensor	1.3 Mega Pixels CMOS
LCD display	1.77" TFT Screen
Lens	F/3.2 , f=7.5mm
Shutter	Electronic Shutter: 1/2 ~ 1/800 sec
Digital zoom	4×
Resolution	Image: 5M/3M/1M/VGA Video: 【HD】/【640】/【320】
White balance	Auto/Daylight/Cloudy/Incandescent/Tungsten
Exposure	-2.0 ~ +2.0EV
Continue shot	3 Frames/Shot

Storage	External memory: micro SD card (Up to 32GB,not include)
Power source	Li-ion battery(built in)
Ambient temperature	Operating: 0° C to 40° C Storage: -20 to 60° C
Microphone	Built-in
Speaker	Built-in
Dimension	71.8x46.6x31(mm)
Weight	About 55 g